Project Baseline Summary Report

Data Source: **EM CDB** Report Number: **GEN-01b**

Operations/Field Office: **Ohio** Print Date: **3/9/2000**

Site Summary Level: **Fernald Environmental Management Project** HQ ID: **0523**

Project **OH-FN-02 / Facility D & D**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

The Facilities Decontamination & Dismantlement (D&D) Project is responsible for the D&D of the above-ground portion of the Operable Unit 3 structures, the design/engineering/planning work needed to support D&D implementation, and the management of the debris resulting from D&D. Debris management includes: containerization (as necessary), off-site disposal of wastes unsuitable for disposal in the On-Site Disposal Facility (OSDF), recycling and/or release of materials as economically advantageous, delivery of debris to interim storage (as needed), and delivery of OSDF bound debris to identified staging/queuing areas for OSDF disposal. Specifically, D&D is performed as sub-projects called complexes, which represent a grouping of structures based typically on location/proximity, but in some instances on similarity of function. The major elements of the D&D projects are: planning/engineering, D&D subcontracting, subcontract management/support, and waste management.

This project does not include facilities shutdown or the demolition of at- and below-grade structures. Both are scoped within other Project Baseline Summaries (PBSs).

Technical Approach: The dismantlement of the above-grade portions of structures is performed using standard demolition technologies to the extent that contaminant control measures will permit. Typical methods employ utilization of the existing structure as an enclosure to minimize airborne contaminant migration to the environment. Conventional glovebag and/or enclosure techniques are used for asbestos removal, then the remaining equipment and non-structural materials are removed from the structures. The outer shell of the structure is removed once contaminant levels are mitigated. Finally, the structural components are removed.
The FEMP has employed implosion techniques to collapse taller structures for removal by hydraulic shearing. Shorter steel structures can be sheared directly. Other options, such as tripping of steel structures, are planned as well.

Emerging Technologies: The Facilities D&D Project has worked recently with the DOE Office of Science and Technology`s D&D Focus Area to demonstrate and deploy improved/emerging D&D-related technologies in the Plant 1 Phase I D&D. Several of the technologies employed performed well against baseline technologies and are included as valid baseline technologies for future D&D projects. These technologies include Oxy-gasoline torch cutting, vacuum removal of insulation materials (VECLoader), cool suits, and process piping interior inspection. These technologies have been identified to subcontractors for future D&D projects.

Technology Needs: The need for a safer and more efficient approach for process piping and conduit dismantlement (OH-F010) could be addressed by the mobile work platform that will be demonstrated as part of the LSTD project. Although several new approaches to equipment dismantlement have been identified, other approaches are continually being sought in response to OH-F027.

Project Status in FY 2006:

All facilities would be dismantled except for the Advanced Wastewater Treatment Facility and the Silos Project Facilities (performed under PBS FN-13).

Post-2006 Project Scope:

Project Description Narratives

None.

Project End State

Access to the OSDF will remain restricted and monitored and under institutional controls in perpetuity. The remainder of the site is expected to achieve final cleanup levels which could support various land uses. However, the decision to limit use to ecological restoration and recreational use was made based on DOE's Natural Resource Damages Act obligations and stakeholder input. Residential and agricultural uses will not be considered for any portion of the site consistent with the recommendations of the Fernald Citizens Advisory Board. Industrial uses may be considered for the 23 acres of potential economic development land. DOE, or a successor agency, will maintain stewardship responsibility for the site.

Cost Baseline Comments:

D&D workscope will continue to maintain regulatory compliance as allowed by limited funding. Sufficient funding will be made available to fund critical path workscope in Facility D&D. The implementation plan approval process for D&D of plant superstructure will continue unchanged. Potential incremental funding of D&D contracts would be approved on a case-by-case basis.

The assumption is that all ROD requirements can be implemented (i.e., waste disposition options remain viable throughout the period), and that no contingency is available. Estimates to support the baseline for this PBS were completed using a bottoms-up approach.

The Ohio Field Office has an aggressive cost savings program in place to contain or reduce the Total Estimated Cost of the project; however, there is potential for cost growth at the Fernald Environmental Management Project because the baseline estimates do not include contingency, and Operable Unit 4 (Silos Project) is in the process of amending the Record of Decision with the EPAs.

Safety & Health Hazards:

This scope of D&D activities includes: Hazardous Waste Managment Unit (HWMU) decontamination, asbestos abatement, surface decontamination, above grade dismantlement, and material management. The decontamination consists primarily of HWMU decontamination and the removal of loose contamination to the greatest extent practicable from all buildings, structures, containments, equipment, and exposed interior surfaces in situ prior to removing the exterior shell of the building. Asbestos abatement includes removal of all ACM material prior to facility demolition. Dismantlement consists not only of disassembly of the structure, but also removal of the equipment and interior structures during the decontamination phase prior to removing the exterior shell of the building. Material managment activities include segregation and containerization of debris by waste categories. Waste containers are staged for disposition by waste management. The hazards of this project include radiological hazards due to penetrating radiation as well as the potential for internal dose from radionuclide uptake. Physical hazards include injury from heavy equipment operations. Exposure to hazardous chemicals and biological contaminants may also be encountered. In addition, workers can be expected to encounter normal occupational hazards such as lifting, tripping, or falling. Weather extremes expose personnel to heat and cold stress conditions.

Safety & Health Work Performance:

The resources necessary to accomplish the work safely are provided through the Authorization basis, the FEMP`s Safety Performance Requirements manual, the Radiation Protection Program, and through the resources allocated to the site`s safety management system in the following functional categories: radiological safety, industrial hygiene, criticality safety, occupational safety and health, emergency managment, fire safety, and

Project Description Narratives

occupational medicine. Safety and Health resources are planned and allocated into these categories by cost centers through the work breakdown structure. There are no unfunded Safety and Health categories.

PBS Comments:

The D&D Activities must be completed in an integrated and timely manner to ensure completion and Closure of the OSDF. The FEMP project has already undergone strategic planning to accelerate the cleanup from 25 years to 10 years. This has resulted in a significant amount of savings. To further reduce mortgage costs and allocate additional funds to the cleanup activities requires: a) the removal of the nuclear materials from the site; b) completion of safe shutdown activities; c) utility reduction projects; d) availability of innovative technology for dismantlement, and e) A factor that allowed the FEMP to pursue accelerated cleanup is the agreement and recommendations made by the Citizens Task Force on cleanup levels and disposition of the waste (amount and waste acceptance criteria levels for onsite disposal facility and disposition off-site for wastes above the waste acceptance criteria).

Fernald developed and implemented an accelerated schedule in FY 1995. This baseline was validated and granted Level 1 approval on August 21, 1996. Impacts to the baseline due to the current funding targets will cause a three year schedule extension.

Baseline Validation Narrative:

On October 29, 1998, DOE-FEMP received DOE-HQ approval on the Fiscal Year 1999 Replan Baseline Change Proposal to the current FEMP Baseline. The FEMP Baseline had been previously validated after DOE-HQ completed their review and provided their approval on August 21, 1996. Many internal and external reviews have been performed on the FEMP Baseline. In March 1998, the U.S. Corps of Engineers performed an external cost review on the OSDF project with results showing the disposal cell estimates consistent with industry standards. In August 1997 and January 1996, external cost reviews were performed on Operable Unit 4, one by the U.S. Corps of Engineers and one by the U.S. Department of Interior (DOI) and the U.S. Department of Energy (DOE). In June 1996, LMI, Janson Associates, and Burns & Roe performed an external cost review on support costs showing the cost estimates were reasonable. In July 1995, DOI and DOE performed an external cost review on Operable Unit 1 and made formal recommendations to generate technical and/or economic advantages. In September 1993, MTC, Booz-Allen, and Burns & Roe performed an external cost review on the FEMP site and had no significant findings. In addition to external cost reviews, since 1991 almost fifteen internal reviews have been performed.

General PBS Information

Project Validated?	Yes	**Date Validated:**	10/29/1998
Has Headquarters reviewed and approved project?	Yes		
Date Project was Added:	12/1/1997		
Baseline Submission Date:	7/8/1999		
FEDPLAN Project?	Yes		

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Project **OH-FN-02 / Facility D & D**

General PBS Information

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	Y	N	N	N	N	N	Y

Project Identification Information

DOE Project Manager: John Trygier

DOE Project Manager Phone Number: 513-648-3154

DOE Project Manager Fax Number: 513-648-3076

DOE Project Manager e-mail address: john.trygier@fernald.gov

Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
PBS Baseline (current year dollars)	195,802	0	195,802	10,587	9,916	13,518	13,187	9,604	10,526	33,235	40,757	57,132	15,523	4,920	0
PBS Baseline (constant 1999 dollars)	182,231	0	182,231	10,587	9,916	13,518	13,187	9,604	10,249	31,510	37,626	51,357	13,587	4,193	0
PBS EM Baseline (current year dollars)	195,802	0	195,802	10,587	9,916	13,518	13,187	9,604	10,526	33,235	40,757	57,132	15,523	4,920	0
PBS EM Baseline (constant 1999 dollars)	182,231	0	182,231	10,587	9,916	13,518	13,187	9,604	10,249	31,510	37,626	51,357	13,587	4,193	0

	2007	2008	2009	2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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	2007	2008	2009	2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.10%

2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 5/30/2005

Current Projected End Date of Project: 5/30/2005

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	178,216	**Actual 1997 Cost:**	9,916	**Actual 1998 Cost:**	13,187
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	155,113	**Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):**			4,188

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Project **OH-FN-02 / Facility D & D**

Project Reconciliation

Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	159,301

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):		
Cost Growth Associated with Scope Previously Reported (+):	148	$148K from cost growth due to higher labor cost projections.
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	159,449	
Additional Amount to Reconcile (+):	-1,323	($1,048K) from FY97/FY98 Uncosted Balances. ($275K) from escalation error.
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	**158,126**	

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Submit Administration Complex Draft Implementation Plan To EPA.	3D10M01001		7/4/2002	7/4/2002	7/4/2002		Y				
Submit East Warehouse Draft Implementation Plan To EPA.	3D12M01001		4/2/2000	4/2/2000			Y				
Submit Electrical Complex Draft Implementation Plan To EPA.	3D16M01001		4/3/2003	4/3/2003			Y				
Submit General Sump Complex Draft Implementation Plan To EPA.	3D20M01001		4/4/2002	4/4/2002			Y				
Submit Laboratory Complex Draft Implementation Plan To EPA.	3D14M01001		7/7/2002	7/7/2002			Y				
Submit Liquid Storage Complex Draft Implementation Plan to EPA.	3D21M01001		1/1/2003	1/1/2003			Y				

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Submit OU1 Complex Draft Implementation Plan to EPA.	3DOU1M1001		7/3/2004	7/3/2004			Y				
Submit OU4 Complex Draft Implementation Plan to EPA.	3DOU4M1001		7/3/2003	7/3/2003			Y				
Submit Pilot Plant Complex Draft Implementation Plan To EPA.	3D04M01001		1/17/2000	1/17/2000			Y				
Submit Plant 1 Phase II Draft Implementation Plan To EPA.	3D19M01001		7/1/2002	7/1/2002	7/1/2002		Y				
Submit Plant 2 Complex Draft Implementation Plan To EPA.	3D03M01001		10/1/2000	10/1/2000			Y				
Submit Plant 3 Draft Implementation Plan to EPA.	3D02M01001		10/1/2000	10/1/2000	10/1/2000		Y				
Submit Plant 5 Draft Implementation Plan to EPA.	3D05M01001		2/1/1999	2/1/1999	2/1/1999		Y				
Submit Plant 6 Complex Draft Implementation Plan To EPA	3D06M01001		5/1/1999	5/1/1999			Y				
Submit Plant 8 Complex Draft Implementation Plan To EPA.	3D11M01001		10/3/2001	10/3/2001			Y				
Complete Plant 9/ Thorium Complex D&D.			6/18/1999	6/18/1999			Y		Y		
Maintenance/Tank Farm Certification of Construction Completion.	3D09E02M15		3/9/2000	3/9/2000			Y				
Initiate facility D&D activities.			10/1/1992								
Complete final D&D of FEMP buildings.			5/30/2005								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Submit Administration Complex Draft Implementation Plan To EPA.	3D10M01001										Notice to Proceed, Certification of Construction Completion (aka,

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
											Completion of Field Activities) and Draft Project Completion Report milestones to be developed in Implementation Plan. This milestone is driven by the OU3 Integrated RD/RA Work Plan.
Submit East Warehouse Draft Implementation Plan To EPA.	3D12M01001										Notice to Proceed, Certification of Construction Completion (aka, Completion of Field Activities) and Draft Project Completion Report milestones to be developed in Implementation Plan. This milestone is driven by the OU3 Integrated RD/RA Work Plan.
Submit Electrical Complex Draft Implementation Plan To EPA.	3D16M01001										Notice to Proceed, Certification of Construction Completion (aka, Completion of Field Activities) and Draft Project Completion Report milestones to be developed in Implementation Plan. This milestone is driven by the OU3 Integrated RD/RA Work Plan.
Submit General Sump Complex Draft Implementation Plan To EPA.	3D20M01001										Notice to Proceed, Certification of Construction Completion (aka, Completion of Field Activities) and Draft Project Completion Report milestones to be developed in Implementation Plan. This milestone is driven by the OU3 Integrated RD/RA Work Plan.
Submit Laboratory Complex Draft Implementation Plan To EPA.	3D14M01001										Notice to Proceed, Certification of Construction Completion (aka, Completion of Field Activities) and

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
											Draft Project Completion Report milestones to be developed in Implementation Plan. This milestone is driven by the OU3 Integrated RD/RA Work Plan.
Submit Liquid Storage Complex Draft Implementation Plan to EPA.	3D21M01001										Notice to Proceed, Certification of Construction Completion (aka, Completion of Field Activities) and Draft Project Completion Report milestones to be developed in Implementation Plan. This milestone is driven by the OU3 Integrated RD/RA Work Plan.
Submit OU1 Complex Draft Implementation Plan to EPA.	3DOU1M1001										Notice to Proceed, Certification of Construction Completion (aka, Completion of Field Activities) and Draft Project Completion Report milestones to be developed in Implementation Plan. This milestone is driven by the OU3 Integrated RD/RA Work Plan.
Submit OU4 Complex Draft Implementation Plan to EPA.	3DOU4M1001										Notice to Proceed, Certification of Construction Completion (aka, Completion of Field Activities) and Draft Project Completion Report milestones to be developed in Implementation Plan. This milestone is driven by the OU3 Integrated RD/RA Work Plan. Enfo
Submit Pilot Plant Complex Draft Implementation Plan To EPA.	3D04M01001										Notice to Proceed, Certification of Construction Completion (aka, Completion of Field Activities), and Draft Project Completion Report

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
											milestones to be developed in the Implementation Plan. This milestone is driven by the OU3 Integrated RD/RA Work Plan.
Submit Plant 1 Phase II Draft Implementation Plan To EPA.	3D19M01001										Notice to Proceed, Certification of Construction Completion (aka, Completion of Field Activities) and Draft Project Completion Report milestones to be developed in Implementation Plan. This milestone is driven by the OU3 Integrated RD/RA Work Plan.
Submit Plant 2 Complex Draft Implementation Plan To EPA.	3D03M01001										Notice to Proceed, Certification of Construction Completion (aka, Completion of Field Activities) and Draft Project Completion Report milestones to be developed in Implementation Plan. This milestone is driven by the OU3 Integrated RD/RA Work Plan.
Submit Plant 3 Draft Implementation Plan to EPA.	3D02M01001										Notice to Proceed, Certification of Construction Completion (aka, Completion of Field Activities) and Draft Project Completion Report milestones to be developed in Implementation Plan. This milestone is driven by the OU3 Integrated RD/RA Work Plan.
Submit Plant 5 Draft Implementation Plan to EPA.	3D05M01001										Notice to Proceed, Certification of Construction Completion (aka, Completion of Field Activities) and Draft Project Completion Report milestones to be developed in

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
											Implementation Plan. This milestone is driven by the OU3 Integrated RD/RA Work Plan.
Submit Plant 6 Complex Draft Implementation Plan To EPA	3D06M01001										Notice to Proceed, Certification of Construction Completion (Completion of Field Activities), and Draft Project Completion Report milestones to be developed in the Implementation Plan. Milestone driver is OU3 Integrated RD/RA Work Plan.
Submit Plant 8 Complex Draft Implementation Plan To EPA.	3D11M01001										Notice to Proceed, Certification of Construction Completion (aka, Completion of Field Activities) and Draft Project Completion Report milestones to be developed in Implementation Plan. This milestone is driven by the OU3 Integrated RD/RA Work Plan.
Complete Plant 9/ Thorium Complex D&D.											
Maintenance/Tank Farm Certification of Construction Completion.	3D09E02M15										This milestone was developed and is driven by the Implementation plan which was approved 6/30/98.
Initiate facility D&D activities.				Y							Initiate facility D&D activities.
Complete final D&D of FEMP buildings.			Y		Y	Y	1	1	1		Complete final D&D of FEMP buildings.

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planne 200

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Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planne 20(
Fac.														
Decom.- Assess.	NF	18.00	0.00	18.00	2.00	18.00	18.00							
Fac.														
Decom- Cleanup	NF	18.00	0.00	18.00	1.00	1.00	1.00		2.00	2.00	1.00	3.00	6.00	3.(
MLLW														
Storage	M3							56.50						
LLW														
Storage	M3							1,879.00	1,009.00	2,038.00	2,423.00	3,212.00	2,957.00	0.(
LLW														
Ship to DOE Disp.	M3	8,070.00	0.00	8,070.00	0.00		0.00		880.00	821.00	0.00	2,176.00	1,094.00	3,099.(
Rem. Waste														
Disposed	M3	162,063.70	0.00	162,063.70	0.00		0.00	6,073.00	30,483.70	14,156.70	16,659.70	24,338.70	37,040.70	25,513.7
Tech.														
Deployed	Ntd	2.00	0.00	2.00				2.00						

Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
Fac.													
Decom.- Assess.	NF												
Fac.													
Decom- Cleanup	NF	3.00											
MLLW													
Storage	M3												

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LLW													
Storage	M3	0.00	0.00	0.00	0.00	0.00							
LLW													
Ship to DOE Disp.	M3	3,099.00	0.00	0.00	0.00	0.00							
Rem. Waste													
Disposed	M3	25,513.70	6,977.50	820.00	0.00	0.00							
Tech.													
Deployed	Ntd												

Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total
Fac.										
Decom.- Assess.	NF									20.00
Fac.										
Decom- Cleanup	NF									20.00
MLLW										
Storage	M3									
LLW										
Storage	M3									
LLW										
Ship to DOE Disp.	M3									7,190.00
Rem. Waste										
Disposed	M3									125,507.00
Tech.										
Deployed	Ntd									2.00

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Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
FEMP	0214		25A \ Sewage Treatment Plant Complex	Above Ground Material / Waste\Storage Yards and Pads	Non-Nuclear Facility	1997	1997	12/15/1996				2000	1998	8/27/1998		N		N
FEMP	0219		10A \ Boiler Plant/Water Plant Complex	Above Ground Material / Waste\Storage Yards and Pads	Non-Nuclear Facility	1997	1997	12/15/1996				1999	1999	3/31/1999		N		N
FEMP	0220		14 \ Administration Bldg Complex	Above Ground Material / Waste\Storage Yards and Pads	Non-Nuclear Facility	1997	2001	12/15/1996				2004	2006			N		N
FEMP	0221		12A \ Maintenance Building Complex	Above Ground Material / Waste\Storage Yards and Pads	Non-Nuclear Facility	1997	1997	12/15/1996				2000	2000			N		N
FEMP	0222		13A \ Pilot Plant Complex	Above Ground Material / Waste\Storage Yards and Pads	Non-Nuclear Facility	1997	2001	12/15/1996				2003	2003			N		N
FEMP	0223		15A \ Laboratory Complex	Buildings & Equipment\Other Buildings		1997	2001	12/15/1996				2003	2006			N		Y
FEMP	0224		16A \ Electrical Station Complex	Buildings & Equipment\Equipment		1997	2001	12/15/1996				2004	2005			N		Y
FEMP	0225		18L \ HIGH NITRATE TANK	Tanks\Above Ground Storage Tanks		1987		11/1/1986				1997		12/12/1996		N		Y
FEMP	0226		19A \ Tank Farm Complex	Tanks\Above Ground Storage Tanks		1997	1997	12/15/1996				2000	1999			N		Y
FEMP	0227		1A \ Plant 1Complex	Buildings & Equipment\Other Buildings		1997	2001	12/15/1996				2003	2004			N		Y
FEMP	0230		2A \ Plant 2 Complex	Buildings & Equipment\Other	Non-Nuclear Facility	1997	1997	12/15/1996	1999		12/31/1998	2004	2003			N		Y

Project Baseline Summary Report

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Operations/Field Office: **Ohio** Print Date: **3/9/2000**

Site Summary Level: **Fernald Environmental Management Project** HQ ID: **0523**

Project **OH-FN-02 / Facility D & D**

Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
				Buildings														
FEMP	0231		2B \ General Sump Complex	Buildings & Equipment\Other Buildings		1997	2001	12/15/1996				2003	2004			N		Y
FEMP	0232		3A \ Plant 3 Complex	Buildings & Equipment\Other Buildings		1997	2001	12/15/1996				2003	2003			N		Y
FEMP	0233		26B \ Liquid Storage Complex	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	1997	2001	12/15/1996				2002	2005			N		Y
FEMP	0234		4A \ Plant 4 Building	Above Ground Material / Waste\Storage Yards and Pads	Non-Nuclear Facility	1987		11/1/1986						9/30/1995		N		N
FEMP	0235		5A \ Plant 5 Complex	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	1997	2001	12/15/1996				2001	2001			N		Y
FEMP	0236		6A \ Plant 6 Complex	Above Ground Material / Waste\Storage Yards and Pads	Non-Nuclear Facility	1997	2001	12/15/1996	1999		3/12/1999	2002	2002			N		Y
FEMP	0238		79 \ East Warehouse Complex	Buildings & Equipment\Other Buildings		1997	2001	12/15/1996				2002	2002			N		Y
FEMP	0240		8A \ Plant 8 Complex	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	1997	2001	12/15/1996				2003	2004			N		Y
FEMP	0241		9A \ Thorium/Plant 9 Complex	Buildings & Equipment\Other Buildings		1997	1997	12/15/1996				1999	1999	3/31/1999		N		Y

Project Baseline Summary Report

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Operations/Field Office: **Ohio** Print Date: **3/9/2000**

Site Summary Level: **Fernald Environmental Management Project** HQ ID: **0523**

Project **OH-FN-02 / Facility D & D**

Facility Deactivation

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
FEMP	0230		2A \ Plant 2 Complex	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	1997	1997	12/15/1996	1999		12/31/1998	2004	2003			N		Y
FEMP	0236		6A \ Plant 6 Complex	Above Ground Material / Waste\Storage Yards and Pads	Non-Nuclear Facility	1997	2001	12/15/1996	1999		3/12/1999	2002	2002			N		Y

Technology Needs

Site Need Code: OH-F010

Site Need Name: Safe and Efficient Process Piping and Conduit Dismantlment

Focus Area Work Package ID: DD-12

Focus Area Work Package: D&D of Weapons Components Fabrication Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate
High Speed Clamshell Pipe Cutter	0	
Mobile Work Platform		
Track Mounted Shear/Crusher		

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	00066: LLW-6 - LLW Contaminated Debris	Y	N
	00065: LLW-5.1 - LLW Contaminated Debris	Y	N

Technology Needs

Site Need Code: OH-F027

Site Need Name: Improved Equipment Dismantlement

Focus Area Work Package ID: DD-12 **Focus Area Work Package:** D&D of Weapons Components Fabrication Facilities

Focus Area: DDFA **Agree with Technology Link:** Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate
Track Mounted Shear/Crusher		

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	00066: LLW-6 - LLW Contaminated Debris	Y	N
	00065: LLW-5.1 - LLW Contaminated Debris	Y	N

Site Need Code: OH-F003

Site Need Name: Non-Intrusive Location of Buried Items

Focus Area Work Package ID: SS-10 **Focus Area Work Package:** Hot Spot Removal

Focus Area: SCFA **Agree with Technology Link:** N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate
Electrical Resistance Tomography for Subsurface Imaging		
Three Dimensional Three-Component Seismic Imaging for Site Characterization		
Inverse Scattering Ground Penetrating Radar Imaging of Buried Objects		
High Resolution Imaging Using Holographic Impulse Radar Array		
Imaging Infrared Interferometer		
Crosshole Compressional and Shear Wave Seismic Tomography		

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Project **OH-FN-02 / Facility D & D**

Technology Needs

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	00067: LLW-7 - LLW Debris	Y	N
	00063: LLW-3.1 - LLW Contaminated Soil	Y	N
	00062: LLW-2 - LLW Contaminated Soil	Y	N

Technology Deployments

	Deployment Year		
Deployment Status	**Planned**	**Forecast**	**Actual Date**
Technology Name: Oxy-Gasoline Torch			
Deployment Commitment	1998	1998	8/30/1998
Technology Name: Centrifugal Shot Blast System			
Deployment Commitment	1998	1998	7/30/1998